

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: ) Examiner: Thomas M. Dougherty  
TAKANORI MATSUDA ET AL. ) : Group Art Unit: 2834  
Application No.: 10/632,913 ) : U.S. Patent No.: 7,045,935 B2  
Filed: August 4, 2003 ) : Issued: May 16, 2006  
For: ACTUATOR AND LIQUID DISCHARGE ) :  
HEAD, AND METHOD FOR ) :  
MANUFACTURING LIQUID ) :  
DISCHARGE HEAD : December 12, 2006

Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

**ATTENTION: CERTIFICATES OF CORRECTION BRANCH**

CERTIFICATE OF CORRECTION  
UNDER RULES 322 AND 323

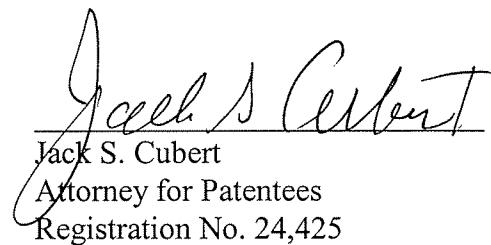
Sir:

It is respectfully requested that a Certificate of Correction be issued by the Patent and Trademark Office due to errors which appear in the printed patent as a result of Patent and Trademark Office mistakes, and mistakes of a clerical, typographical, or minor character, which were not the fault of the Patent and Trademark Office. A Certificate of Correction form, in duplicate, is enclosed.

Accompanying this letter is a check for \$100.00 to cover the statutory fee for such Certificate of Correction.

Patentees' undersigned attorney may be reached in our Washington, D.C. office by telephone at (202) 530-1010. All correspondence should continue to be directed to our address given below.

Respectfully submitted,



Jack S. Cubert  
Attorney for Patentees  
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PRINTER'S TRIM LINE

PATENT NO. : 7,045,935 B2  
DATED : May 16, 2006  
INVENTOR(S) : TAKANORI MATSUDA ET AL.

Page 1 of 2

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

**COLUMN 1**

Line 59, "an" should read --a--.

**COLUMN 2**

Line 19, "the" should read --in the--.

Line 57, "mono-crystal" should read --monocrystal--.

Line 62, "paten" should read --patent--.

**COLUMN 3**

Line 2, "mono-crystal" should read --monocrystal--.

Line 16, "object" should read --objects--.

**COLUMN 6**

Line 36, "When" should read --when--.

Line 50 "ration" should read --ratio--.

MAILING ADDRESS OF SENDER:

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PATENT NO. 7,045,935 B2

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 9

Line 1, "filing" should read --filming--.  
Line 5, "method MBE" should read --method, MBE.  
Line 14, "legal" should read --etching--.  
Line 16, "Circle," should read --circle,--.  
Line 23, "portion" should read --portions--.  
Line 40, "embodiment" should read --embodiments--.

COLUMN 10

Line 32, "displace" should read --displacement--.  
Line 59, "eight" should read --eighth--.

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